

Welcome to STN International! Enter x:x

LOGINID:sssp1611sxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAPplus records now contain indexing from 1907 to the
present
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded
NEWS 5 SEP 29 DISSABS now available on STN
NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPplus
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CAPplus

NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may

result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:37:01 ON 30 JAN 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:37:15 ON 30 JAN 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 JAN 2004 HIGHEST RN 643723-14-2

DICTIONARY FILE UPDATES: 29 JAN 2004 HIGHEST RN 643723-14-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

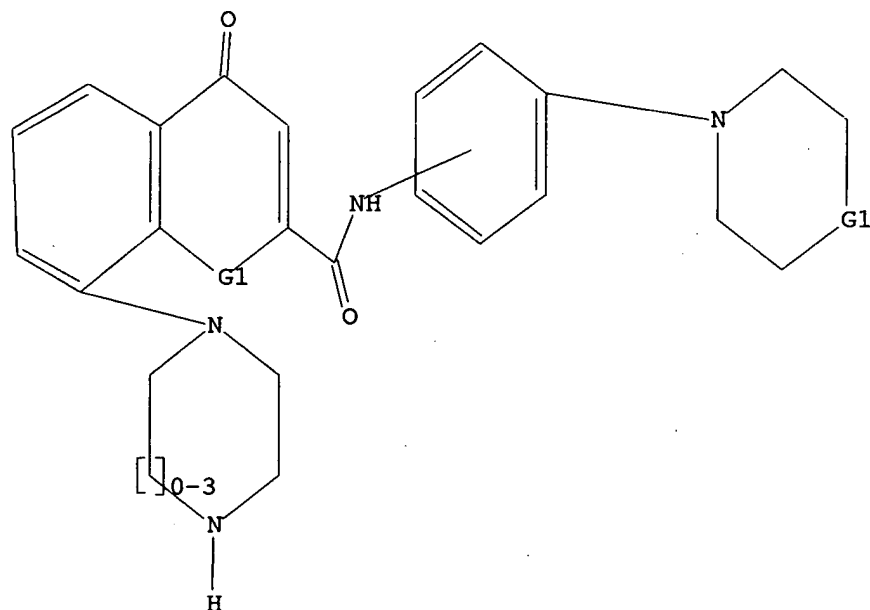
Uploading 10051776.5

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,S,N,NH

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full

FULL SEARCH INITIATED 16:37:42 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 97 TO ITERATE

100.0% PROCESSED 97 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

L2 4 SEA SSS FUL L1

=> file caold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

155.42

155.63

FILE 'CAOLD' ENTERED AT 16:37:51 ON 30 JAN 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s ll sss full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 16:37:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 97 TO ITERATE

100.0% PROCESSED 97 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L3 4 SEA SSS FUL L1

L4 0 L3

=> file marpat

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	311.89

FULL ESTIMATED COST

FILE 'MARPAT' ENTERED AT 16:38:09 ON 30 JAN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE CONTENT: 1988-PRESENT (VOL 104 ISS 15-VOL 140 ISS04) (20040123ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6667161 23 DEC 2003
DE 10317295 24 DEC 2003
EP 1371658 17 DEC 2003
JP 2003346928 05 DEC 2003
WO 2004000750 31 DEC 2003

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=> s ll sss full

FULL SEARCH INITIATED 16:38:16 FILE 'MARPAT'
FULL SCREEN SEARCH COMPLETED - 5317 TO ITERATE

81.8% PROCESSED 4350 ITERATIONS 3 ANSWERS

97.7% PROCESSED 5197 ITERATIONS 3 ANSWERS

100.0% PROCESSED 5317 ITERATIONS
SEARCH TIME: 00.00.52

3 ANSWERS

L5 3 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

109.84

421.73

FILE 'CAPLUS' ENTERED AT 16:39:18 ON 30 JAN 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Jan 2004 VOL 140 ISS 6

FILE LAST UPDATED: 29 Jan 2004 (20040129/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L6 5 L3

=> s l5

L7 3 L5

=> d l6 fbib hitstr abs total

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:356424 CAPLUS

DN 138:368765

TI Preparation of 4-oxo-4H-chromene-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for treatment of psychiatric disorders

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.

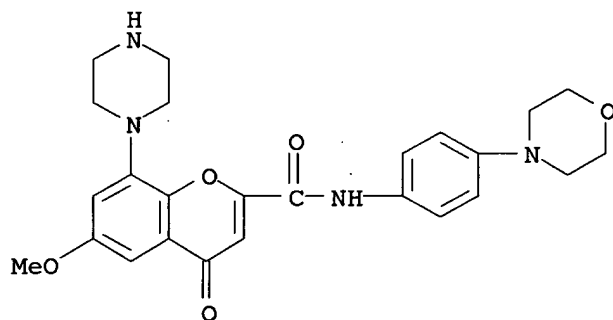
KIND DATE

APPLICATION NO. DATE

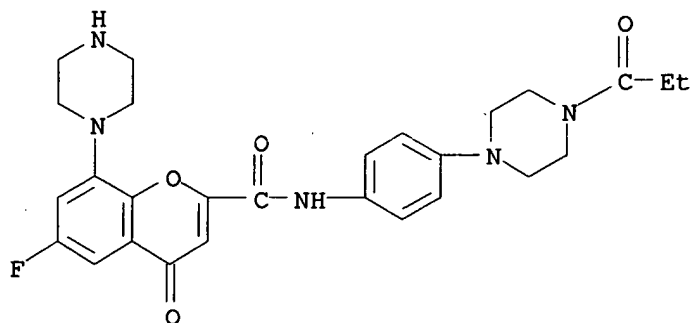
Patel

<1/30/2004>

PI WO 2003037872 A1 20030508 WO 2002-SE1989 20021101
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG
SE 2001-3649 A 20011101
OS MARPAT 138:368765
IT 442549-12-4P 521094-04-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(5-HT antagonist; prepn. of chromenones and quinolinones as 5-HT1B and
5-HT1D antagonists for treatment of psychiatric disorders)
RN 442549-12-4 CAPLUS
CN 4H-1-Benzopyran-2-carboxamide, 6-methoxy-N-[4-(4-morpholinyl)phenyl]-4-oxo-
8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

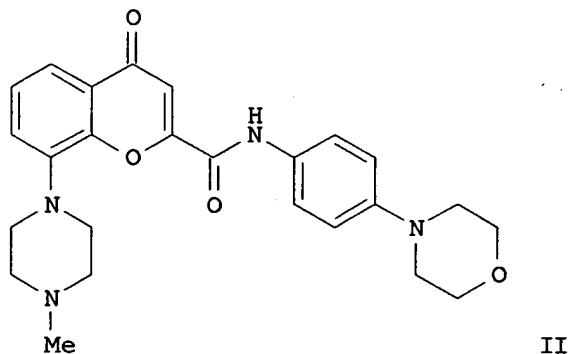
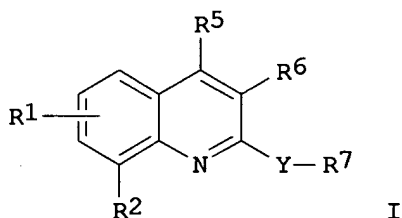


RN 521094-04-2 CAPLUS
CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

GI



AB Quinolines I [wherein R1 = independently H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, OR4, N(R4)2 or SR4; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] are disclosed as

5-HT1B and 5-HT1D antagonists. Related 4-oxo-4H-chromene-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides were prepd. and tested for biol. activity. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:356423 CAPLUS
DN 138:368764
TI Preparation of 4-oxo-4H-chromene-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for treatment of psychiatric disorders
IN Chapdelaine, Marc; Davenport, Timothy; Haerberlein, Markus; Horchler, Carey; Pierson, Edward; Sohn, Daniel; McCauley, John
PA Astrazeneca AB, Swed.
SO PCT Int. Appl., 137 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003037871	A1	20030508	WO 2002-SE1987	20021101
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			SE 2001-3648	A 20011101

OS MARPAT 138:368764
IT **442549-12-4P**, 6-Methoxy-4-oxo-8-(piperazin-1-yl)-4H-chromene-2-carboxylic acid [4-(morpholin-4-yl)phenyl]amide **521094-04-2P**, 6-Fluoro-4-oxo-8-piperazin-1-yl-4H-chromene-2-carboxylic acid

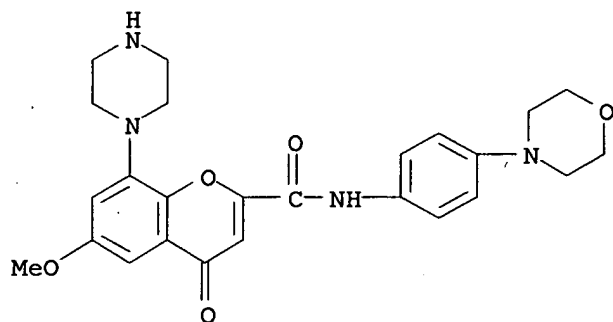
[4-(morpholin-4-yl)phenyl]amide monohydrochloride

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(5-HT antagonist; prepn. of chromenones and quinolinones as 5-HT1B and 5-HT1D antagonists for treatment of psychiatric disorders)

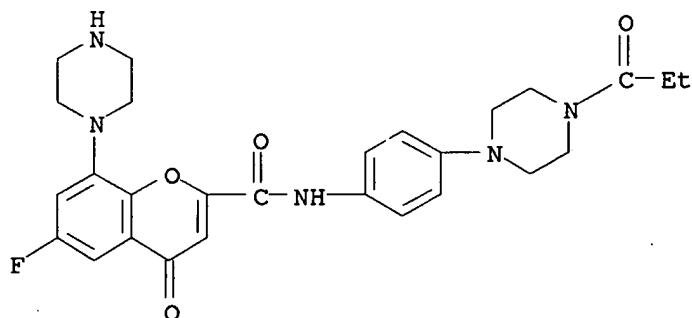
RN 442549-12-4 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-methoxy-N-[4-(4-morpholinyl)phenyl]-4-oxo-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



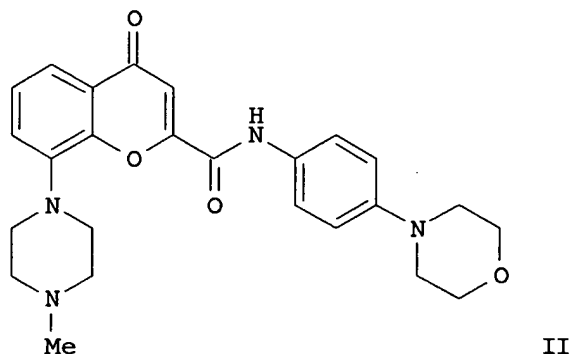
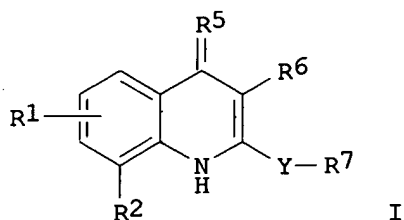
RN 521094-04-2 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

GI



AB Title quinolinones I [wherein R1 = H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, NR4, or S; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] and related chromenones were prepd. as 5-HT1B and 5-HT1D antagonists. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. Thus, I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:539473 CAPLUS

DN 137:109293

TI Preparation of piperazinylchromans as 5-HT1B and 5-HT1D agonists/antagonists useful as antimigraine drugs.

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca Ab, Swed.

SO PCT Int. Appl., 139 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055014	A2	20020718	WO 2002-SE70	20020115
	WO 2002055014	A3	20021114		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				US 2001-262108PP	20010116
				SE 2001-3646	A 20011101
EP 1353915	A2	20031022		EP 2002-715919	20020115
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
				US 2001-262108PP	20010116
				SE 2001-3646	A 20011101
				WO 2002-SE70	W 20020115
NO 2003003205	A	20030902		NO 2003-3205	20030715
				US 2001-262108PP	20010116
				SE 2001-3646	A 20011101
				WO 2002-SE70	W 20020115

OS MARPAT 137:109293

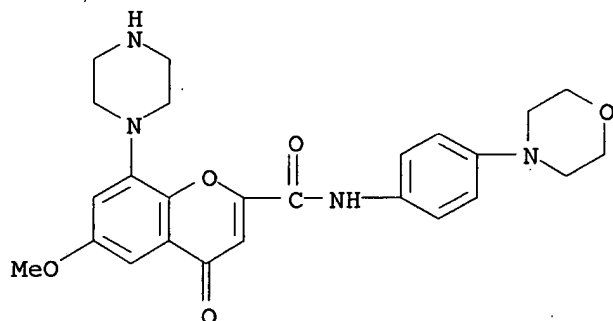
IT 442549-12-4P 442549-28-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperazinylchromans as 5-HT1B and 5-HT1D agonists/antagonists useful as antimigraine drugs)

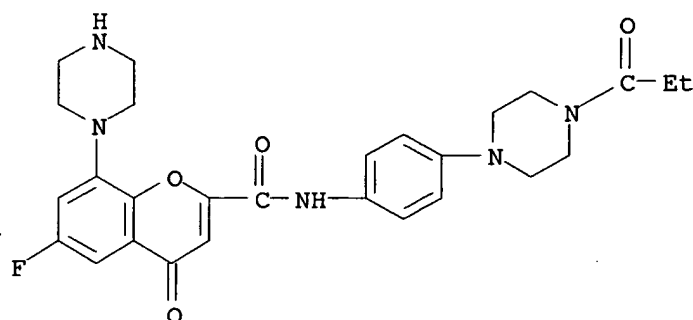
RN 442549-12-4 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-methoxy-N-[4-(4-morpholinyl)phenyl]-4-oxo-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

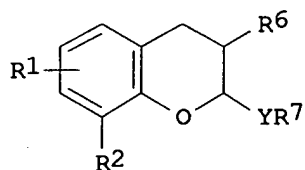


RN 442549-28-2 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



GI



I

AB Title compds. [I; R1 = H, thiomethoxy, NHA, NA2, NHCOA, halo, OH, OA, cyano, aryl, (substituted) alkyl, cycloalkyl, etc.; A = (substituted) alkyl, cycloalkyl, alkenyl, alkynyl; R2 = (substituted) piperazinyl, homopiperazinyl, aminoalkylamino, aminoheterocyclyl, heterocyclylamino; R6 = H, Me; Y = CONH, CONA, CSNH, CH2CO, CH2NA, piperazinylcarbonyl, 5-membered heterocyclylene, etc.; R7 = (substituted) mono- or bicyclic aryl, heterocyclyl], were prepd. Thus, 8-(4-methyl-1-piperazinyl)chroman-2-carboxylic acid hydrochloride (prepn. given) in DMF was treated sequentially with 1-hydroxybenzotriazole, O-(1H-benzotriazol-1-yl)-N,N,N',N'-pentamethyleuronium tetrafluoroborate, Et3N, and 4-(4-morpholinyl)aniline (prepn. given) followed by stirring overnight to give 8-(4-methyl-1-piperazinyl)chroman-2-carboxylic acid (4-morpholin-4-ylphenyl)amide. Several I showed 5-HT1B antagonist activity in the range 0.006-5.5 mg/kg in a screen for reversal of

hypothermia in guinea pigs.

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:539472 CAPLUS

DN 137:93772

TI Preparation of piperazinylchromenones as 5-HT1B 5-HT1D agonists/antagonists useful as drugs.

IN Chapdelaine, Marc; Davenport, Timothy; Haerberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca Ab, Swed.

SO PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055013	A2	20020718	WO 2002-SE69	20020115
	WO 2002055013	A3	20021114		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				US 2001-262109PP	20010116
				SE 2001-3647	A 20011101
EP 1353914	A2	20031022	EP 2002-729623	20020115	
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
				US 2001-262109PP	20010116
				SE 2001-3647	A 20011101
				WO 2002-SE69	W 20020115
NO 2003003204	A	20030902	NO 2003-3204	20030715	
				US 2001-262109PP	20010116
				SE 2001-3647	A 20011101
				WO 2002-SE69	W 20020115

OS MARPAT 137:93772

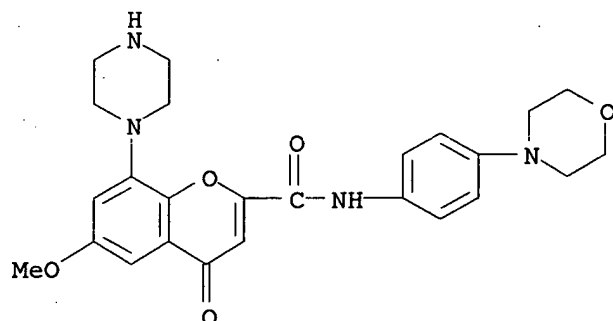
IT 442549-12-4P 442549-28-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperazinylchromenones as 5-HT1B 5-HT1D agonists/antagonists useful as drugs)

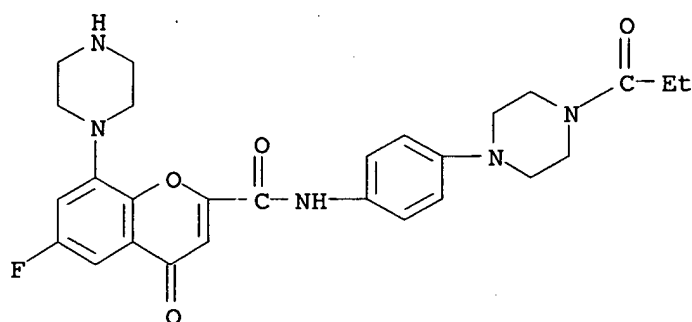
RN 442549-12-4 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-methoxy-N-[4-(4-morpholinyl)phenyl]-4-oxo-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

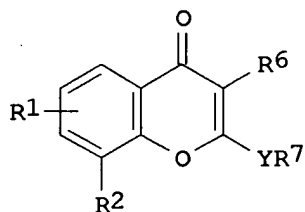


RN 442549-28-2 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 6-fluoro-4-oxo-N-[4-[4-(1-oxopropyl)-1-piperazinyl]phenyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



GI



I

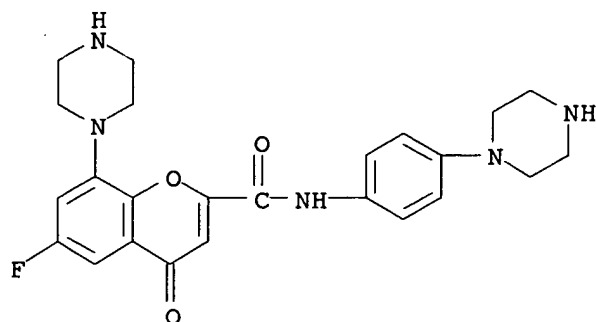
AB Title compds. [I; R1 = H, thiomethoxy, NHA, NA2, NHCOA, halo, OH, OA, cyano, aryl, (substituted) alkyl, cycloalkyl, etc.; A = (substituted) alkyl, cycloalkyl, alkenyl, alkynyl; R2 = (substituted) piperazinyl, homopiperazinyl, aminoalkylamino, aminoheterocyclyl, heterocyclylamino; R6 = H, Me; Y = CONH, CONA, CSNH, CH2CO, CH2NA, piperazinylcarbonyl, 5-membered heterocyclylene, etc.; R7 = (substituted) mono- or bicyclic aryl, heterocyclyl], were prepd. Thus, 8-(4-methyl-1-piperazin-1-yl)-4-oxo-4H-chromene-2-carboxylic acid hydrochloride (prepn. given) in DMF/Et3N was treated sequentially with 1-hydroxybenzotriazole, O-(1H-benzotriazol-1-yl)-N,N,N',N'-pentamethyleuronium tetrafluoroborate, 4-dimethylaminopyridine, and 4-(4-morpholinyl)aniline (prepn. given) to give 8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo-4H-

chromene-2-carboxamide. Several I showed 5-HT1B antagonist activity in the range 0.006-5.5 mg/kg in a screen for reversal of hypothermia in guinea pigs.

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:539471 CAPLUS
 DN 137:109205
 TI Preparation of 4-oxo-4H-chromene-2-carboxamides and related compounds as antagonists or agonists of serotonin 5HT1B and 5HT1D receptors
 IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel
 PA Astrazeneca Ab, Swed.
 SO PCT Int. Appl., 147 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

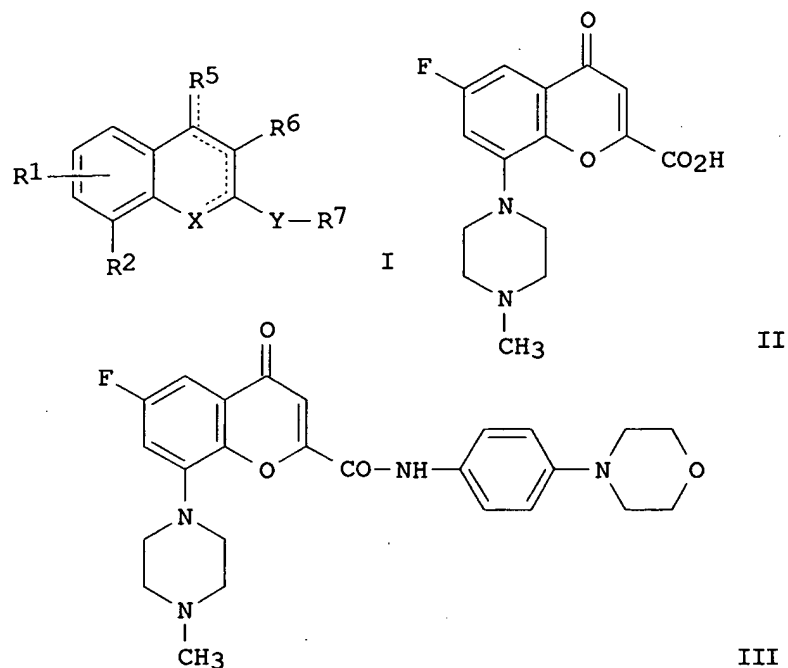
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055012	A2	20020718	WO 2002-SE68	20020115
	WO 2002055012	A3	20021114		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
EP	1353913	A2	20031022	EP 2002-729622	20020115
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
US	2003013708	A1	20030116	US 2002-51776	20020116
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
NO	2003003203	A	20030902	NO 2003-3203	20030715
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
OS	MARPAT 137:109205				
IT	442914-98-9P				
	RL:	PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
		(drug candidate; prepn. of 4-oxo-4H-chromene-2-carboxamides and related compds. as antagonists or agonists of serotonin 5HT1B and 5HT1D receptors)			
RN	442914-98-9	CAPLUS			
CN	4H-1-Benzopyran-2-carboxamide, 6-fluoro-4-oxo-8-(1-piperazinyl)-N-[4-(1-				

piperazinyl)phenyl]-, hydrochloride (9CI) (CA INDEX NAME)



• x HCl

GI



AB Title compds. I and their pharmaceutically acceptable salts [R1 = H, alkyl, cycloalkyl, thiomethoxy, etc.; R2 = NR₃R₃; R₃ independently = H, (un)substituted alkylamine e.g., alkyl, alkenyl, alkynyl amino-heterocycle, etc; R₃-R₃ = (un)substituted cycloalkylamine or amino-heterocycle e.g., alkyl, alkenyl, alkynyl, etc; R₅ = H, O, S, etc.; R₆ = H, Me; R₇ = (un)substituted mono- or bicyclo- arom., (un)substituted

heterocycle; X = O, N, NH, S; Y = CONH, NHCO, CSNH, etc.] were prepd with the proviso that multiple bonds are sepd. from each other by at least one single bond. For example, condensation of 4-oxo-4H-chromene-2-carboxylic acid II e.g., prepd. from diethylacetylenedicarboxylate and 2-bromo-4-fluorophenol in 5 steps, and 4-morpholin-4-yl-phenylamine provided preferred 4-oxo-4H-chromene-2-carboxamide III. The utility of the compds. of the present invention were tested using a guinea pig hypothermia test, ED50 values for compds. I range from 0.006-5.5 mg/kg. Compds. I are disclosed to be antagonists or agonists of serotonin 5HT1B and 5HT1D receptors (no data provided). Also I are claimed for use in the treatment of gastrointestinal disorders, cardiovascular regulation, motor disorders, etc..

=> d his

(FILE 'HOME' ENTERED AT 16:37:01 ON 30 JAN 2004)

FILE 'REGISTRY' ENTERED AT 16:37:15 ON 30 JAN 2004

L1 STRUCTURE UPLOADED
L2 4 S L1 SSS FULL

FILE 'CAOLD' ENTERED AT 16:37:51 ON 30 JAN 2004
S L1

FILE 'REGISTRY' ENTERED AT 16:37:58 ON 30 JAN 2004
L3 4 S L1 SSS FULL

FILE 'CAOLD' ENTERED AT 16:37:59 ON 30 JAN 2004
L4 0 S L3 SSS FULL

FILE 'MARPAT' ENTERED AT 16:38:09 ON 30 JAN 2004
L5 3 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:39:18 ON 30 JAN 2004
L6 5 S L3
L7 3 S L5

=> d 17 fbib hitstr abs total

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:356423 CAPLUS

DN 138:368764

TI Preparation of 4-oxo-4H-chromene-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for treatment of psychiatric disorders

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler, Carey; Pierson, Edward; Sohn, Daniel; McCauley, John

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 137 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

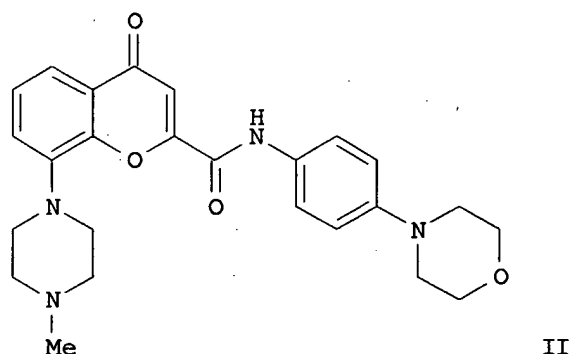
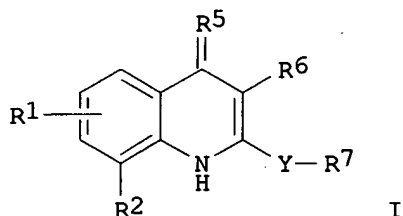
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037871	A1	20030508	WO 2002-SE1987	20021101

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

SE 2001-3648 A 20011101

OS MARPAT 138:368764
GI



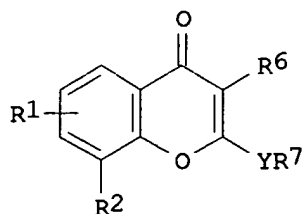
AB Title quinolinones I [wherein R1 = H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, NR4, or S; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] and related chromenones were prepd. as 5-HT1B and 5-HT1D antagonists. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%).

Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. Thus, I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:539472 CAPLUS
DN 137:93772
TI Preparation of piperazinylchromenones as 5-HT1B 5-HT1D
agonists/antagonists useful as drugs.
IN Chapdelaine, Marc; Davenport, Timothy; Haerberlein, Markus; Horschler,
Carey; McCauley, John; Pierson, Edward; Sohn, Daniel
PA Astrazeneca Ab, Swed.
SO PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055013	A2	20020718	WO 2002-SE69	20020115
WO 2002055013	A3	20021114		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
			US 2001-262109PP	20010116
			SE 2001-3647	A 20011101
EP 1353914	A2	20031022	EP 2002-729623	20020115
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
			US 2001-262109PP	20010116
			SE 2001-3647	A 20011101
			WO 2002-SE69	W 20020115
NO 2003003204	A	20030902	NO 2003-3204	20030715
			US 2001-262109PP	20010116
			SE 2001-3647	A 20011101
			WO 2002-SE69	W 20020115
OS	MARPAT 137:93772			
GI				



I

AB Title compds. [I; R1 = H, thiomethoxy, NHA, NA2, NHCOA, halo, OH, OA, cyano, aryl, (substituted) alkyl, cycloalkyl, etc.; A = (substituted) alkyl, cycloalkyl, alkenyl, alkynyl; R2 = (substituted) piperazinyl, homopiperazinyl, aminoalkylamino, aminoheterocyclyl, heterocyclylamino; R6 = H, Me; Y = CONH, CONA, CSNH, CH2CO, CH2NA, piperazinylcarbonyl, 5-membered heterocyclylene, etc.; R7 = (substituted) mono- or bicyclic aryl, heterocyclyl], were prepd. Thus, 8-(4-methyl-1-piperazin-1-yl)-4-oxo-4H-chromene-2-carboxylic acid hydrochloride (prepn. given) in DMF/Et3N was treated sequentially with 1-hydroxybenzotriazole, O-(1H-benzotriazol-1-yl)-N,N,N',N'-pentamethylenuronium tetrafluoroborate, 4-dimethylaminopyridine, and 4-(4-morpholinyl)aniline (prepn. given) to give 8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo-4H-chromene-2-carboxamide. Several I showed 5-HT1B antagonist activity in the range 0.006-5.5 mg/kg in a screen for reversal of hypothermia in guinea pigs.

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:539471 CAPLUS

DN 137:109205

TI Preparation of 4-oxo-4H-chromene-2-carboxamides and related compounds as antagonists or agonists of serotonin 5HT1B and 5HT1D receptors

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horschler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca Ab, Swed.

SO PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DT Patent

LA English

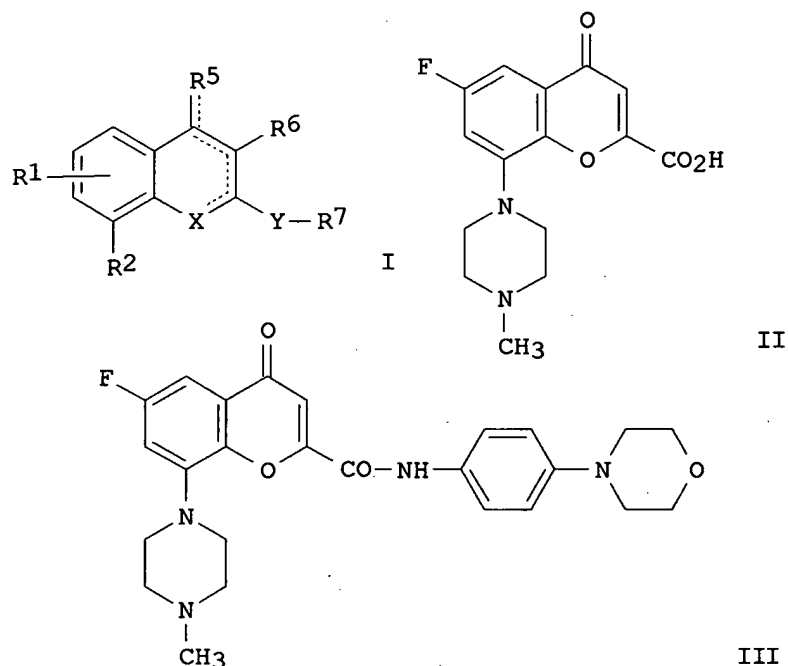
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055012	A2	20020718	WO 2002-SE68	20020115
	WO 2002055012	A3	20021114		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

US 2001-262107PP 20010116

EP 1353913	A2	20031022	SE 2001-3650	A	20011101
			EP 2002-729622		20020115
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			US 2001-262107PP		
			SE 2001-3650	A	20011101
			WO 2002-SE68	W	20020115
US 2003013708	A1	20030116	US 2002-51776		20020116
			US 2001-262107PP		20010116
			SE 2001-3650	A	20011101
			WO 2002-SE68	W	20020115
NO 2003003203	A	20030902	NO 2003-3203		20030715
			US 2001-262107PP		20010116
			SE 2001-3650	A	20011101
			WO 2002-SE68	W	20020115

OS MARPAT 137:109205
GI



AB Title compds. I and their pharmaceutically acceptable salts [R1 = H, alkyl, cycloalkyl, thiomethoxy, etc.; R2 = NR3R3; R3 independently = H, (un)substituted alkylamine e.g., alkyl, alkenyl, alkynyl amino-heterocycle, etc; R3-R3 = (un)substituted cycloalkylamine or amino-heterocycle e.g., alkyl, alkenyl, alkynyl, etc; R5 = H, O, S, etc.; R6 = H, Me; R7 = (un)substituted mono- or bicyclo- arom., (un)substituted heterocycle; X = O, N, NH, S; Y = CONH, NHCO, CSNH, etc.] were prepd with the proviso that multiple bonds are sepd. from each other by at least one single bond. For example, condensation of 4-oxo-4H-chromene-2-carboxylic acid II e.g., prepd. from diethylacetylenedicarboxylate and

2-bromo-4-fluorophenol in 5 steps, and 4-morpholin-4-yl-phenylamine provided preferred 4-oxo-4H-chromene-2-carboxamide III. The utility of the compds. of the present invention were tested using a guinea pig hypothermia test; ED50 values for compds. I range from 0.006-5.5 mg/kg. Compds. I are disclosed to be antagonists or agonists of serotonin 5HT1B and 5HT1D receptors (no data provided). Also I are claimed for use in the treatment of gastrointestinal disorders, cardiovascular regulation, motor disorders, etc..

=> s chromene and diazepam

L8 3 CHROMENE AND DIAZEPAN

=> s chromene and thiomorpholine

L9 6 CHROMENE AND THIOMORPHOLINE

=> s l8 and l9

L10 3 L8 AND L9

=> s chromene and pierazine

L11 0 CHROMENE AND PIERAZINE

=> s chromene and piperazine

L12 10 CHROMENE AND PIPERAZINE

=> s l10 and l12

L13 3 L10 AND L12

=> d his

(FILE 'HOME' ENTERED AT 16:37:01 ON 30 JAN 2004)

FILE 'REGISTRY' ENTERED AT 16:37:15 ON 30 JAN 2004

L1 STRUCTURE UPLOADED

L2 4 S L1 SSS FULL

FILE 'CAOLD' ENTERED AT 16:37:51 ON 30 JAN 2004

S L1

FILE 'REGISTRY' ENTERED AT 16:37:58 ON 30 JAN 2004

L3 4 S L1 SSS FULL

FILE 'CAOLD' ENTERED AT 16:37:59 ON 30 JAN 2004

L4 0 S L3 SSS FULL

FILE 'MARPAT' ENTERED AT 16:38:09 ON 30 JAN 2004

L5 3 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:39:18 ON 30 JAN 2004

L6 5 S L3

L7 3 S L5

L8 3 S CHROMENE AND DIAZEPAN

L9 6 S CHROMENE AND THIOMORPHOLINE

L10 3 S L8 AND L9

L11 0 S CHROMENE AND PIERAZINE

L12 10 S CHROMENE AND PIPERAZINE

L13 3 S L10 AND L12

=> d 18 fbib hitstr abs total

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:356424 CAPLUS

DN 138:368765

TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for treatment of psychiatric disorders

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DT Patent

LA English

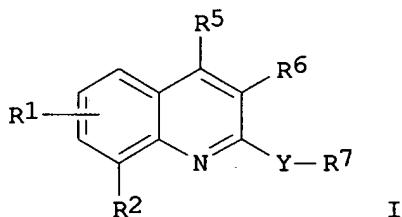
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037872	A1	20030508	WO 2002-SE1989	20021101
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

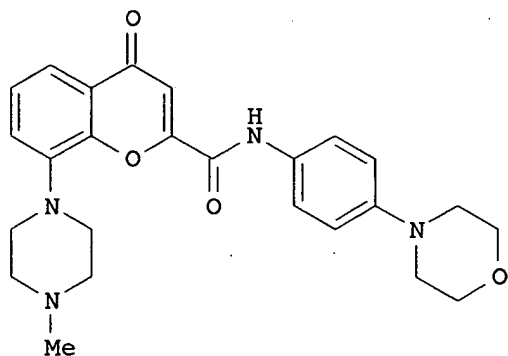
SE 2001-3649 A 20011101

OS MARPAT 138:368765

GI



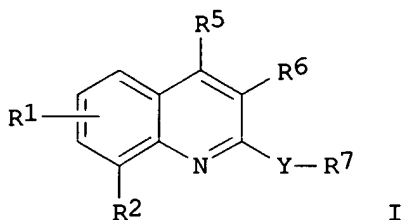
I



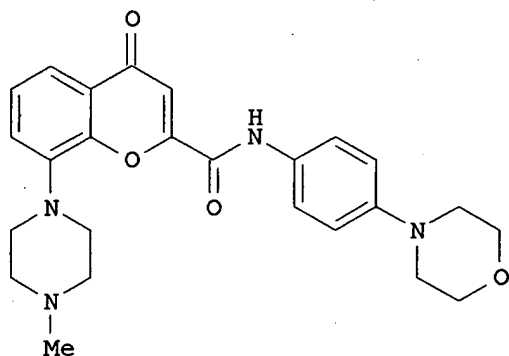
II

Patel

<1/30/2004>



I



II

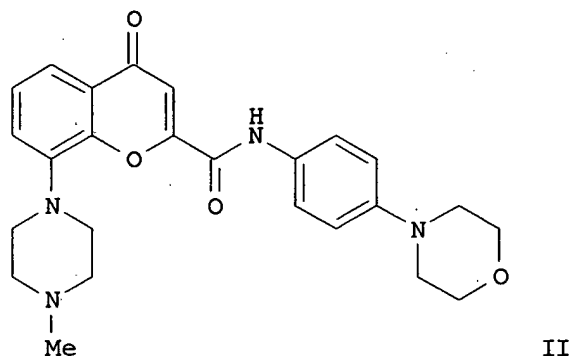
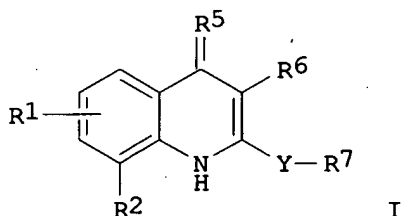
AB Quinolines I [wherein R1 = independently H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, OR4, N(R4)2 or SR4; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] are disclosed as 5-HT1B and 5-HT1D antagonists. Related 4-oxo-4H-**chromene** -2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides were prepd. and tested for biol. activity. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-**chromene**-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

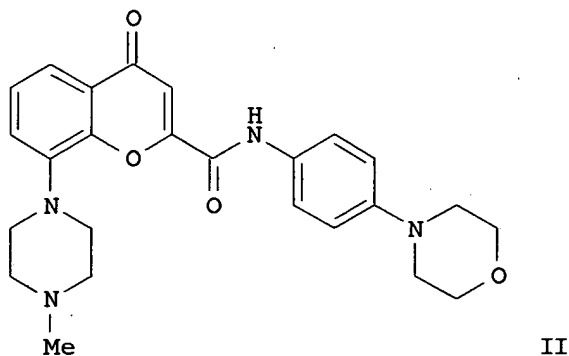
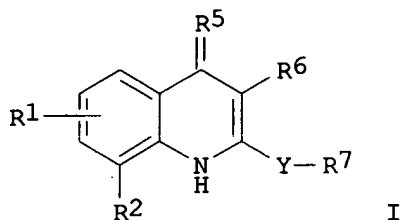
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:356423 CAPLUS
 DN 138:368764
 TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and
 4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for
 treatment of psychiatric disorders
 IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler,
 Carey; Pierson, Edward; Sohn, Daniel; McCauley, John
 PA Astrazeneca AB, Swed.
 SO PCT Int. Appl., 137 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003037871	A1	20030508	WO 2002-SE1987	20021101
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			SE 2001-3648	A 20011101
OS MARPAT 138:368764				
GI				



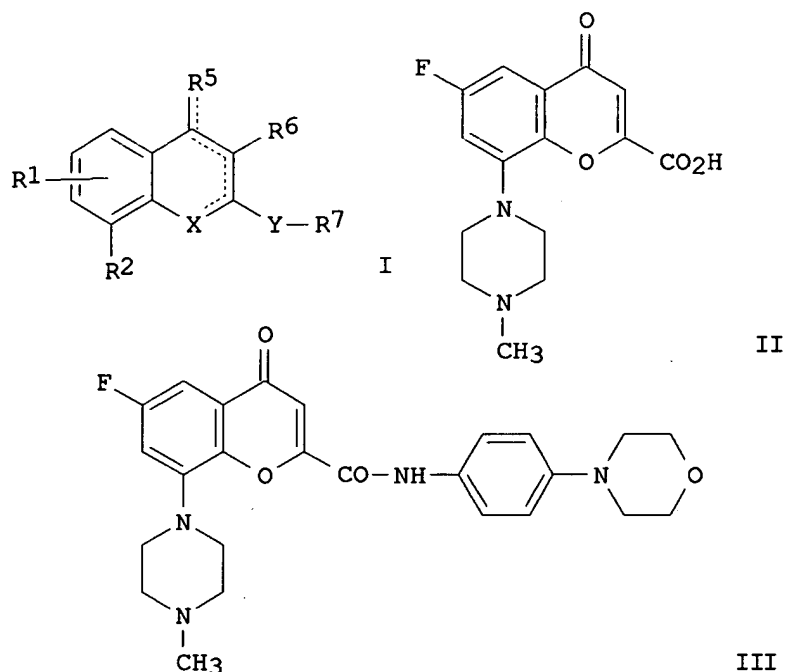


AB Title quinolinones I [wherein R1 = H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, NR4, or S; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] and related chromenones were prepd. as 5-HT1B and 5-HT1D antagonists. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. Thus, I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:539471 CAPLUS
 DN 137:109205
 TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and related
 compounds as antagonists or agonists of serotonin 5HT1B and 5HT1D
 receptors
 IN Chapdelaine, Marc; Davenport, Timothy; Haerberlein, Markus; Horschler,
 Carey; McCauley, John; Pierson, Edward; Sohn, Daniel
 PA Astrazeneca Ab, Swed.
 SO PCT Int. Appl., 147 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055012	A2	20020718	WO 2002-SE68	20020115
	WO 2002055012	A3	20021114		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
EP 1353913	A2	20031022	EP 2002-729622	20020115	
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
US 2003013708	A1	20030116	US 2002-51776	20020116	
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
NO 2003003203	A	20030902	NO 2003-3203	20030715	
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
OS	MARPAT 137:109205				
GI					



AB Title compds. I and their pharmaceutically acceptable salts [R1 = H, alkyl, cycloalkyl, thiomethoxy, etc.; R2 = NR3R3; R3 independently = H, (un)substituted alkylamine e.g., alkyl, alkenyl, alkynyl amino-heterocycle, etc; R3-R3 = (un)substituted cycloalkylamine or amino-heterocycle e.g., alkyl, alkenyl, alkynyl, etc; R5 = H, O, S, etc.; R6 = H, Me; R7 = (un)substituted mono- or bicyclo- arom., (un)substituted heterocycle; X = O, N, NH, S; Y = CONH, NHCO, CSNH, etc.] were prepd with the proviso that multiple bonds are sepd. from each other by at least one single bond. For example, condensation of 4-oxo-4H-**chromene**-2-carboxylic acid II e.g., prepd. from diethylacetylenedicarboxylate and 2-bromo-4-fluorophenol in 5 steps, and 4-morpholin-4-yl-phenylamine provided preferred 4-oxo-4H-**chromene**-2-carboxamide III. The utility of the compds. of the present invention were tested using a guinea pig hypothermia test, ED50 values for compds. I range from 0.006-5.5 mg/kg. Compds. I are disclosed to be antagonists or agonists of serotonin 5HT1B and 5HT1D receptors (no data provided). Also I are claimed for use in the treatment of gastrointestinal disorders, cardiovascular regulation, motor disorders, etc..

=> d 19 fbib hitstr abs total

L9 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:356424 CAPLUS

DN 138:368765

TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for treatment of psychiatric disorders

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DT Patent

LA English

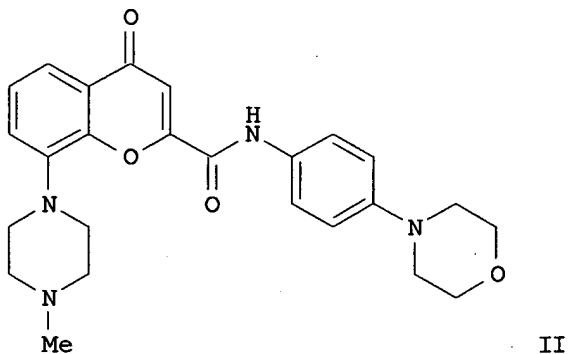
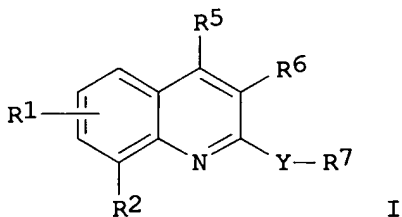
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037872	A1	20030508	WO 2002-SE1989	20021101
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

SE 2001-3649 A 20011101

OS MARPAT 138:368765

GI



AB Quinolines I [wherein R1 = independently H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, OR4, N(R4)2 or SR4; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y =

CONH, CONA, NHCO, CSNH, CH₂NH, COCH₂, CH₂CO, CO-piperazinediyl, COR₈, NACO, CSNA, CH₂NA, NACH₂, or 5-membered heterocyclyl] are disclosed as 5-HT_{1B} and 5-HT_{1D} antagonists. Related 4-oxo-4H-**chromene**-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides were prepd. and tested for biol. activity. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H₂SO₄ in EtOH provided Et 8-bromo-4-oxo-4H-**chromene**-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBT and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT_{1B} and 5-HT_{1D} receptors with K_i values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT_{1B} agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

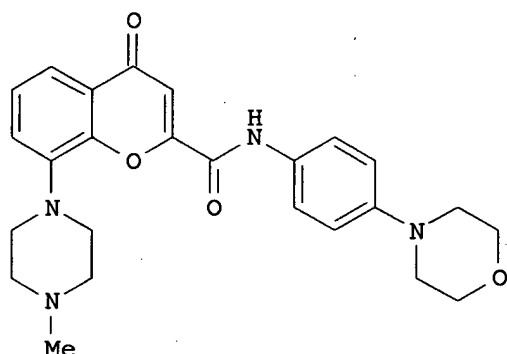
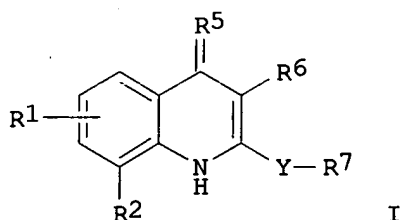
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:356423 CAPLUS
DN 138:368764
TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and
4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for
treatment of psychiatric disorders
IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horschler,
Carey; Pierson, Edward; Sohn, Daniel; McCauley, John
PA Astrazeneca AB, Swed.
SO PCT Int. Appl., 137 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003037871	A1	20030508	WO 2002-SE1987	20021101
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

SE 2001-3648 A 20011101

OS MARPAT 138:368764
GI

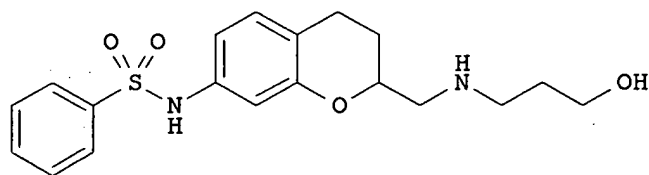
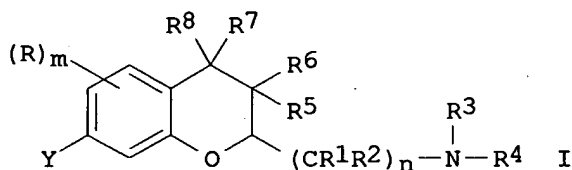


AB Title quinolinones I [wherein R1 = H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, NR4, or S; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] and related chromenones were prepd. as 5-HT1B and 5-HT1D antagonists. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. Thus, I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:282556 CAPLUS
DN 138:304161
TI Preparation of 2-(aminoalkyl)chromans as 5-hydroxytryptamine-6 ligands for treatment of CNS disorders
IN Greenblatt, Lynne Padilla; Kelly, Michael Gerard
PA Wyeth, John, and Brother Ltd., USA
SO PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003029238	A1	20030410	WO 2002-US30955	20020930
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2003158175	A1	20030821	US 2001-326957PP	20011004
				US 2002-263890	20021002
				US 2001-326957PP	20011004
OS	MARPAT 138:304161				
GI					



II

AB Title compds. I [wherein Y = SO₂NR₉R₁₀ or NR₁₁ZR₁₂; Z = SO₂, CONH, or CSNH; R = halo, CN, OR₁₃, CO₂R₁₄, CONR₁₅R₁₆, SO_xR₁₇, or (un)substituted alkyl, alkenyl, alkynyl, cyclo(hetero)aryl, Ph, or heteroaryl; R₁, R₂, R₅, R₆, R₇, R₈, and R₁₁ = independently H or (un)substituted alkyl; R₃ and R₄ = independently H or (un)substituted alkyl or (hetero)cycloalkyl; or NR₃R₄

= (un)substituted heterocyclyl; m = 0-3; n = 1-4; x = 0-2; R9 and R10 = independently H or (un)substituted alkyl or (hetero)aryl; R12 and R17 = independently (un)substituted alkyl or (hetero)aryl; R13 = H, CO2R18, or (un)substituted alkyl, alkenyl, alkynyl, or (hetero)aryl; R14 and R18 = independently H or (un)substituted alkyl, alkenyl, alkynyl, cyclo(hetero)alkyl, or (hetero)aryl; R15 and R16 = independently H or (un)substituted alkyl; or stereoisomers or pharmaceutically acceptable salts thereof] were prepd. as 5-hydroxytryptamine-6 (5-HT6) ligands. For example, cycloaddn. of N-(4-acetyl-3-hydroxyphenyl)acetamide with di-Et oxalate in the presence of NaOEt in EtOH provided Et 7-amino-4-oxo-4H-chromene-2-carboxylate (61%). Hydrogenation of the chroman (89%) with Pd/C, followed by redn. of the ester using LiBH4 gave 7-amino-2-(hydroxymethyl)chroman (90%). Addn. of PhSO2Cl in pyridine afforded the N,O-disubstituted deriv. (92%). Reaction with 3-amino-1-propanol in pyridine and conversion to the salt provided II.bul.hemifumarate. The latter exhibited binding to the 5-HT6 receptor with Ki of 5 nM in cultured HeLa cells expressing human cloned 5-HT6 receptors. Thus, I are useful for the treatment of CNS disorders, such as motor disorder, anxiety, cognitive disorder, schizophrenia, depression, Alzheimer's disease, Parkinson's disease, and attention deficit disorder (no data).

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

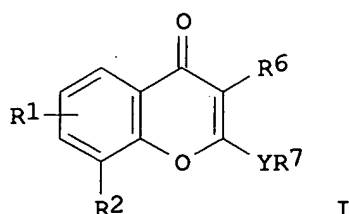
L9 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:539472 CAPLUS
DN 137:93772
TI Preparation of piperazinyldchromenones as 5-HT1B 5-HT1D agonists/antagonists useful as drugs.
IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel
PA Astrazeneca Ab, Swed.
SO PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055013	A2	20020718	WO 2002-SE69	20020115
WO 2002055013	A3	20021114		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
			US 2001-262109PP	20010116
			SE 2001-3647	A 20011101
EP 1353914	A2	20031022	EP 2002-729623	20020115
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
			US 2001-262109PP	20010116

NO 2003003204 A 20030902

SE 2001-3647 A 20011101
 WO 2002-SE69 W 20020115
 NO 2003-3204 20030715
 US 2001-262109PP 20010116
 SE 2001-3647 A 20011101
 WO 2002-SE69 W 20020115

OS MARPAT 137:93772
 GI



AB Title compds. [I; R1 = H, thiomethoxy, NHA, NA2, NHCOA, halo, OH, OA, cyano, aryl, (substituted) alkyl, cycloalkyl, etc.; A = (substituted) alkyl, cycloalkyl, alkenyl, alkynyl; R2 = (substituted) piperazinyl, homopiperazinyl, aminoalkylamino, aminoheterocyclyl, heterocyclylamino; R6 = H, Me; Y = CONH, CONA, CSNH, CH2CO, CH2NA, piperazinylcarbonyl, 5-membered heterocyclylene, etc.; R7 = (substituted) mono- or bicyclic aryl, heterocyclyl], were prepd. Thus, 8-(4-methyl-1-piperazin-1-yl)-4-oxo-4H-**chromene**-2-carboxylic acid hydrochloride (prepn. given) in DMF/Et3N was treated sequentially with 1-hydroxybenzotriazole, O-(1H-benzotriazol-1-yl)-N,N,N',N'-pentamethyleuronium tetrafluoroborate, 4-dimethylaminopyridine, and 4-(4-morpholinyl)aniline (prepn. given) to give 8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo-4H-**chromene**-2-carboxamide. Several I showed 5-HT1B antagonist activity in the range 0.006-5.5 mg/kg in a screen for reversal of hypothermia in guinea pigs.

L9 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:539471 CAPLUS

DN 137:109205

TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and related compounds as antagonists or agonists of serotonin 5HT1B and 5HT1D receptors

IN Chapdelaine, Marc; Davenport, Timothy; Haerberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca Ab, Swed.

SO PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DT Patent

LA English

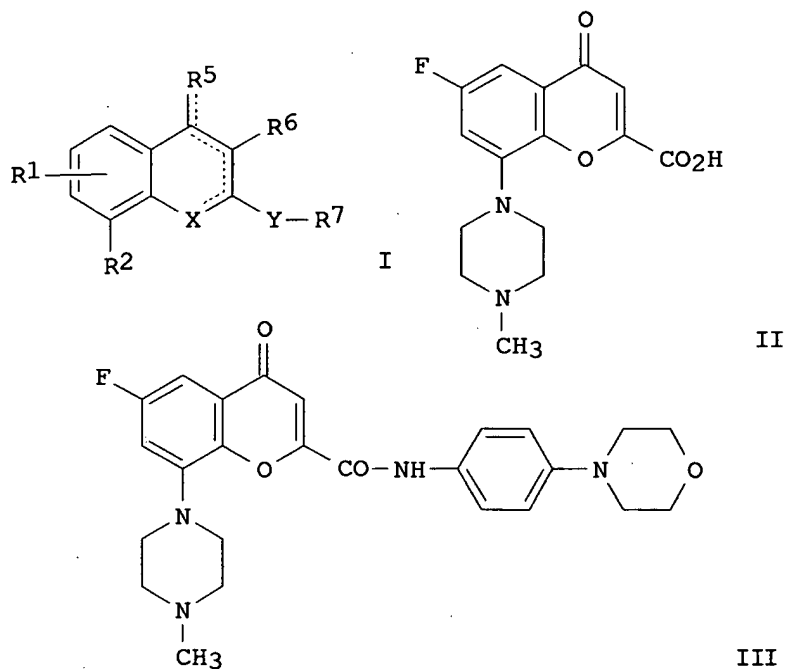
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055012	A2	20020718	WO 2002-SE68	20020115
	WO 2002055012	A3	20021114		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,			

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
 TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2001-262107PP 20010116
 SE 2001-3650 A 20011101
 EP 1353913 A2 20031022 EP 2002-729622 20020115
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2001-262107PP 20010116
 SE 2001-3650 A 20011101
 WO 2002-SE68 W 20020115
 US 2002-51776 20020116
 US 2001-262107PP 20010116
 SE 2001-3650 A 20011101
 WO 2002-SE68 W 20020115
 NO 2003003203 A 20030902 NO 2003-3203 20030715
 US 2001-262107PP 20010116
 SE 2001-3650 A 20011101
 WO 2002-SE68 W 20020115

OS MARPAT 137:109205
 GI



AB Title compds. I and their pharmaceutically acceptable salts [R1 = H,

alkyl, cycloalkyl, thiomethoxy, etc.; R2 = NR3R3; R3 independently = H, (un)substituted alkylamine e.g., alkyl, alkenyl, alkynyl amino-heterocycle, etc; R3-R3 = (un)substituted cycloalkylamine or amino-heterocycle e.g., alkyl, alkenyl, alkynyl, etc; R5 = H, O, S, etc.; R6 = H, Me; R7 = (un)substituted mono- or bicyclo- arom., (un)substituted heterocycle; X = O, N, NH, S; Y = CONH, NHCO, CSNH, etc.] were prepd with the proviso that multiple bonds are sepd. from each other by at least one single bond. For example, condensation of 4-oxo-4H-**chromene**-2-carboxylic acid II e.g., prepd. from diethylacetylenedicarboxylate and 2-bromo-4-fluorophenol in 5 steps, and 4-morpholin-4-yl-phenylamine provided preferred 4-oxo-4H-**chromene**-2-carboxamide III. The utility of the compds. of the present invention were tested using a guinea pig hypothermia test, ED50 values for compds. I range from 0.006-5.5 mg/kg. Compds. I are disclosed to be antagonists or agonists of serotonin 5HT1B and 5HT1D receptors (no data provided). Also I are claimed for use in the treatment of gastrointestinal disorders, cardiovascular regulation, motor disorders, etc..

L9 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:72049 CAPLUS

DN 136:134784

TI Preparation of hydrocarbyl sulfone derivatives as inhibitors of activated blood coagulation factor X and process for their production

IN Kubo, Keiji; Miyawaki, Toshio; Kawamura, Masaki

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 252 pp.

CODEN: PIXXD2

DT Patent

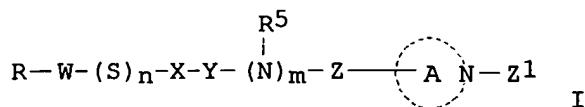
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002006234	A1	20020124	WO 2001-JP6148	20010717	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
				JP 2000-221065 A	20000717	
	AU 2001069531	A5	20020130	AU 2001-69531	20010717	
				JP 2000-221065 A	20000717	
				WO 2001-JP6148 W	20010717	
	JP 2002201178	A2	20020716	JP 2001-216830	20010717	
				JP 2000-221065 A	20000717	
	EP 1302462	A1	20030416	EP 2001-948032	20010717	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
				JP 2000-221065 A	20000717	
				WO 2001-JP6148 W	20010717	
	US 2003187023	A1	20031002	US 2003-333308	20030116	
				JP 2000-221065 A	20000717	
				WO 2001-JP6148 W	20010717	

OS MARPAT 136:134784

GI



AB Compds. represented by the general formula (I) or salts thereof [wherein R = (un)substituted cyclic hydrocarbyl or heterocyclyl; W = a bond, (un)substituted divalent hydrocarbon chain; X = (un)substituted divalent hydrocarbon group; Y, Z = NR₆, CO, SO, SO₂, CH₂, NR₆CO, COCH₂, a bond; ring A = (un)substituted N-contg. heterocyclyl; R₅, R₆ = H, (un)substituted hydrocarbyl, (un)substituted alkoxy, optionally esterified or amidated carboxyl, (un)substituted acyl; or R₅ is linked to the substituent of X or that of the ring A to form a ring; Z1 = (un)substituted imidoyl or N-contg. heterocyclyl; n = 0,1,2; m = 0,1] or salts thereof, which inhibit activated blood coagulation factor X (no data), are prepd. These compds. are useful as anticoagulants for the treatment or prevention of myocardial infarction, cerebral thrombosis, deep venous thrombosis, pulmonary thromboembolism, or thromboembolism during or after surgery. Thus, a soln. of 3-[(6-chloro-2-naphthyl)sulfonyl]propanoic acid (prepn. given), 4-methylamino-1-(2-methyl-4-pyridyl)piperidine (prepn. given), DMTMM in THF was stirred at room temp. for 16 h to give 38% 3-[(6-chloro-2-naphthyl)sulfonyl]-N-methyl-N-[1-(2-methyl-4-pyridyl)-4-piperidinyl]propanamide (II). A capsule and tablet formulation contg. II were prepd.

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 110 fbib hitstr abs total

L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:356424 CAPLUS
DN 138:368765
TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and
4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for
treatment of psychiatric disorders
IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler,
Carey; McCauley, John; Pierson, Edward; Sohn, Daniel
PA Astrazeneca AB, Swed.
SO PCT Int. Appl., 160 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037872	A1	20030508	WO 2002-SE1989	20021101
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,				

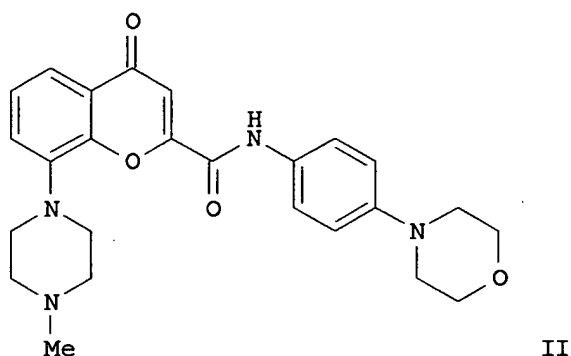
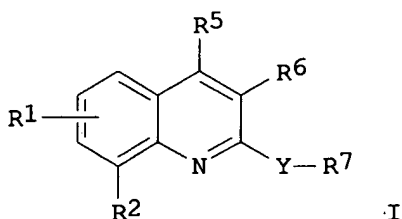
Patel

<1/30/2004>

UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

SE 2001-3649 A 20011101

OS MARPAT 138:368765
 GI



AB Quinolines I [wherein R1 = independently H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, OR4, N(R4)2 or SR4; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] are disclosed as 5-HT1B and 5-HT1D antagonists. Related 4-oxo-4H-chromene-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides were prepd. and tested for biol. activity. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds.

showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:356423 CAPLUS

DN 138:368764

TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and
4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for
treatment of psychiatric disorders

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler,
Carey; Pierson, Edward; Sohn, Daniel; McCauley, John

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 137 pp.

CODEN: PIXXD2

DT Patent

LA English

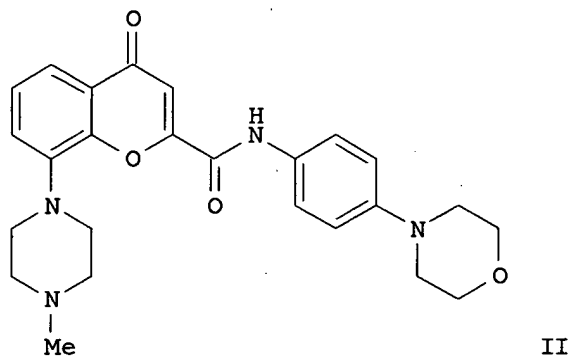
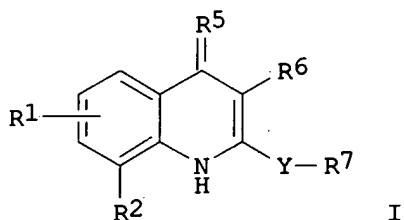
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003037871	A1	20030508	WO 2002-SE1987	20021101
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

SE 2001-3648 A 20011101

OS MARPAT 138:368764

GI

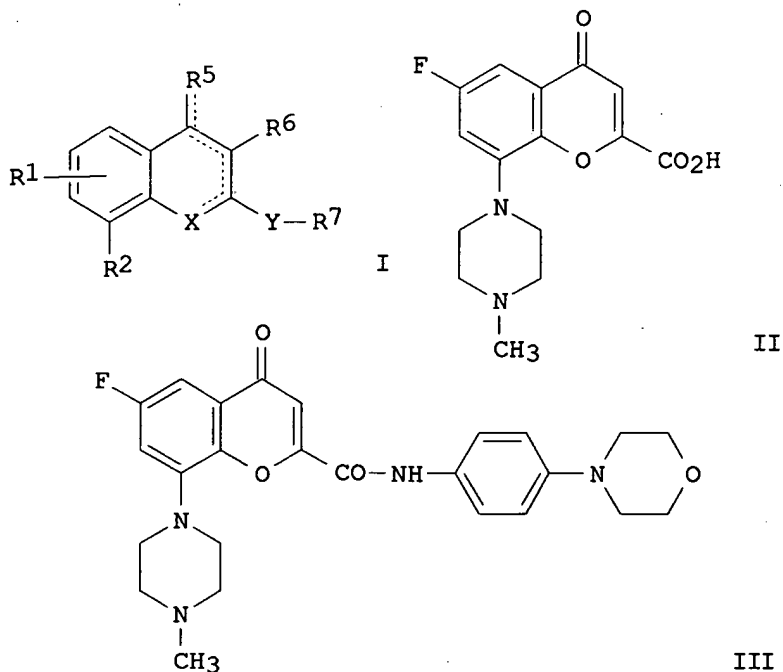


AB Title quinolinones I [wherein R1 = H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, NR4, or S; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] and related chromenones were prepd. as 5-HT1B and 5-HT1D antagonists. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. Thus, I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:539471 CAPLUS
 DN 137:109205
 TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and related
 compounds as antagonists or agonists of serotonin 5HT1B and 5HT1D
 receptors
 IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler,
 Carey; McCauley, John; Pierson, Edward; Sohn, Daniel
 PA Astrazeneca Ab, Swed.
 SO PCT Int. Appl., 147 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055012	A2	20020718	WO 2002-SE68	20020115
	WO 2002055012	A3	20021114		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
EP 1353913	A2	20031022	EP 2002-729622	20020115	
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
US 2003013708	A1	20030116	US 2002-51776	20020116	
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
NO 2003003203	A	20030902	NO 2003-3203	20030715	
				US 2001-262107PP	20010116
				SE 2001-3650	A 20011101
				WO 2002-SE68	W 20020115
OS	MARPAT 137:109205				
GI					



AB Title compds. I and their pharmaceutically acceptable salts [R1 = H, alkyl, cycloalkyl, thiomethoxy, etc.; R2 = NR3R3; R3 independently = H, (un)substituted alkylamine e.g., alkyl, alkenyl, alkynyl amino-heterocycle, etc; R3-R3 = (un)substituted cycloalkylamine or amino-heterocycle e.g., alkyl, alkenyl, alkynyl, etc; R5 = H, O, S, etc.; R6 = H, Me; R7 = (un)substituted mono- or bicyclo- arom., (un)substituted heterocycle; X = O, N, NH, S; Y = CONH, NHCO, CSNH, etc.] were prepd with the proviso that multiple bonds are sepd. from each other by at least one single bond. For example, condensation of 4-oxo-4H-**chromene**-2-carboxylic acid II e.g., prepd. from diethylacetylenedicarboxylate and 2-bromo-4-fluorophenol in 5 steps, and 4-morpholin-4-yl-phenylamine provided preferred 4-oxo-4H-**chromene**-2-carboxamide III. The utility of the compds. of the present invention were tested using a guinea pig hypothermia test, ED50 values for compds. I range from 0.006-5.5 mg/kg. Compds. I are disclosed to be antagonists or agonists of serotonin 5HT1B and 5HT1D receptors (no data provided). Also I are claimed for use in the treatment of gastrointestinal disorders, cardiovascular regulation, motor disorders, etc..

=> d 112 fbib hitstr abs total

L12 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:356424 CAPLUS

DN 138:368765

TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for treatment of psychiatric disorders

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DT Patent

LA English

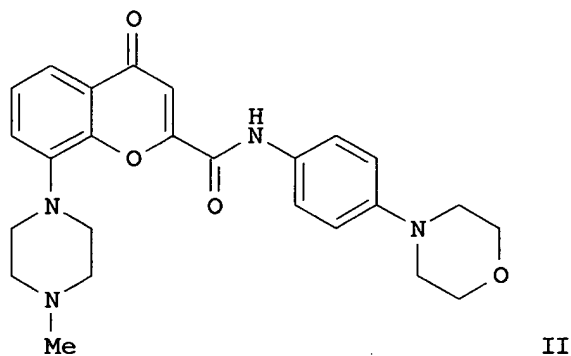
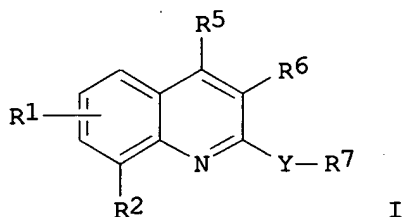
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037872	A1	20030508	WO 2002-SE1989	20021101
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

SE 2001-3649 A 20011101

OS MARPAT 138:368765

GI



AB Quinolines I [wherein R1 = independently H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, OR4, N(R4)2 or SR4; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y =

CONH, CONA, NHCO, CSNH, CH₂NH, COCH₂, CH₂CO, CO-piperazinediyl, COR₈, NACO, CSNA, CH₂NA, NACH₂, or 5-membered heterocyclyl] are disclosed as 5-HT_{1B} and 5-HT_{1D} antagonists. Related 4-oxo-4H-**chromene**-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides were prepd. and tested for biol. activity. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H₂SO₄ in EtOH provided Et 8-bromo-4-oxo-4H-**chromene**-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBT and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT_{1B} and 5-HT_{1D} receptors with K_i values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT_{1B} agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

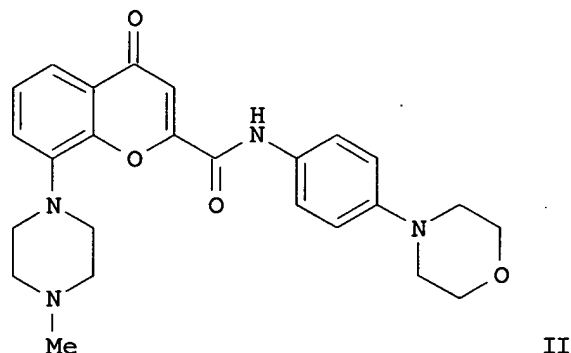
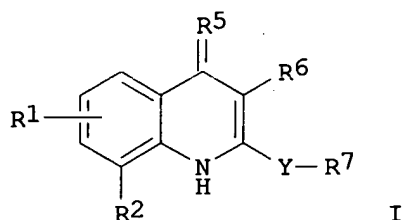
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:356423 CAPLUS
DN 138:368764
TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and
4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for
treatment of psychiatric disorders
IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horchler,
Carey; Pierson, Edward; Sohn, Daniel; McCauley, John
PA Astrazeneca AB, Swed.
SO PCT Int. Appl., 137 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003037871	A1	20030508	WO 2002-SE1987	20021101
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

SE 2001-3648 A 20011101

OS MARPAT 138:368764
GI



AB Title quinolinones I [wherein R1 = H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, NR4, or S; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] and related chromenones were prepd. as 5-HT1B and 5-HT1D antagonists. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. Thus, I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

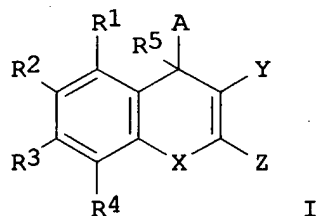
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:888554 CAPLUS
DN 137:384751
TI 7,8-Fused 4(H)-**chromenes** as activators of caspases and inducers
of apoptosis
IN Cai, Sui Xiong; Xu, Lifan; Storer, Richard; Attardo, Giorgio
PA Cytovia, Inc., USA
SO PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002092083	A1	20021121	WO 2002-US15398	20020516
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				US 2001-290976PP	20010516

OS MARPAT 137:384751

GI



AB Title compds. I [X = O, S, (un)substituted NH; Y = CN, (un)substituted CHO, CO₂H, CONH₂; Z = (un)substituted NH₂; R₁, R₂ = H, halo, haloalkyl, aryl, carbocyclic, heterocyclic, heteroaryl, (un)substituted alkyl, alkenyl, alkynyl, NH₂, NO₂, CN, OH, SH, acyloxy, N₃, alkoxy, CO₂H, OCH₂O, carbamoyl, alkylthio; R₃R₄ = atoms required to complete a thiazole, oxazole, 2-iminoimidazole, 2-oxo-2,1,3-thiadiazole, 2-oxothiazole, 2-oxooxazole, 2-thioxooxazole, 2-thioxoimidazole, 2-thioxothiazole, imidazoline, oxazoline, thiazoline, triazole, oxazine, 2,3-dioxooxazine, or **piperazine** ring; R₅ = H, alkyl; A = (un)substituted aryl, heteroaryl, carbocyclic, heterocyclic, aralkyl] were prep'd. for use as activators of caspases and inducers of apoptosis. Therefore, they can be used to induce cell death in a variety of clin. conditions in which

uncontrolled growth and spread of abnormal cells occurs. Thus, 2-amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-7-hydroxy-8-amino-4H-chromene was treated with carbonyldiimidazole to give I [X = O, Y = CN, Z = NH₂, A = 3,4,5-Br(MeO)₂C₆H₂, R₁, R₂, R₅ = H, R₃R₄ = OC(O)NH] which had EC₅₀ against T-47D and ZR-75-1 cell lines of 566.6 and 365.6 nM resp.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:539472 CAPLUS

DN 137:93772

TI Preparation of piperazinylchromenones as 5-HT_{1B} 5-HT_{1D} agonists/antagonists useful as drugs.

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horschler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca Ab, Swed.

SO PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DT Patent

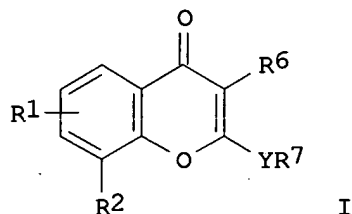
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055013	A2	20020718	WO 2002-SE69	20020115
	WO 2002055013	A3	20021114		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				US 2001-262109PP	20010116
				SE 2001-3647	A 20011101
EP 1353914	A2	20031022		EP 2002-729623	20020115
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
				US 2001-262109PP	20010116
				SE 2001-3647	A 20011101
				WO 2002-SE69	W 20020115
NO 2003003204	A	20030902		NO 2003-3204	20030715
				US 2001-262109PP	20010116
				SE 2001-3647	A 20011101
				WO 2002-SE69	W 20020115

OS MARPAT 137:93772

GI



AB Title compds. [I; R1 = H, thiomethoxy, NHA, NA2, NHCOA, halo, OH, OA, cyano, aryl, (substituted) alkyl, cycloalkyl, etc.; A = (substituted) alkyl, cycloalkyl, alkenyl, alkynyl; R2 = (substituted) piperazinyl, homopiperazinyl, aminoalkylamino, aminoheterocyclyl, heterocyclylamino; R6 = H, Me; Y = CONH, CONA, CSNH, CH2CO, CH2NA, piperazinylcarbonyl, 5-membered heterocyclylene, etc.; R7 = (substituted) mono- or bicyclic aryl, heterocyclyl], were prepd. Thus, 8-(4-methyl-1-piperazin-1-yl)-4-oxo-4H-**chromene**-2-carboxylic acid hydrochloride (prepn. given) in DMF/Et3N was treated sequentially with 1-hydroxybenzotriazole, O-(1H-benzotriazol-1-yl)-N,N,N',N'-pentamethyleuronium tetrafluoroborate, 4-dimethylaminopyridine, and 4-(4-morpholinyl)aniline (prepn. given) to give 8-(4-methyl-1-piperazinyl)-N-[4-(4-morpholinyl)phenyl]-4-oxo-4H-**chromene**-2-carboxamide. Several I showed 5-HT1B antagonist activity in the range 0.006-5.5 mg/kg in a screen for reversal of hypothermia in guinea pigs.

L12 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:539471 CAPLUS

DN 137:109205

TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and related compounds as antagonists or agonists of serotonin 5HT1B and 5HT1D receptors

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horschler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca Ab, Swed.

SO PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DT Patent

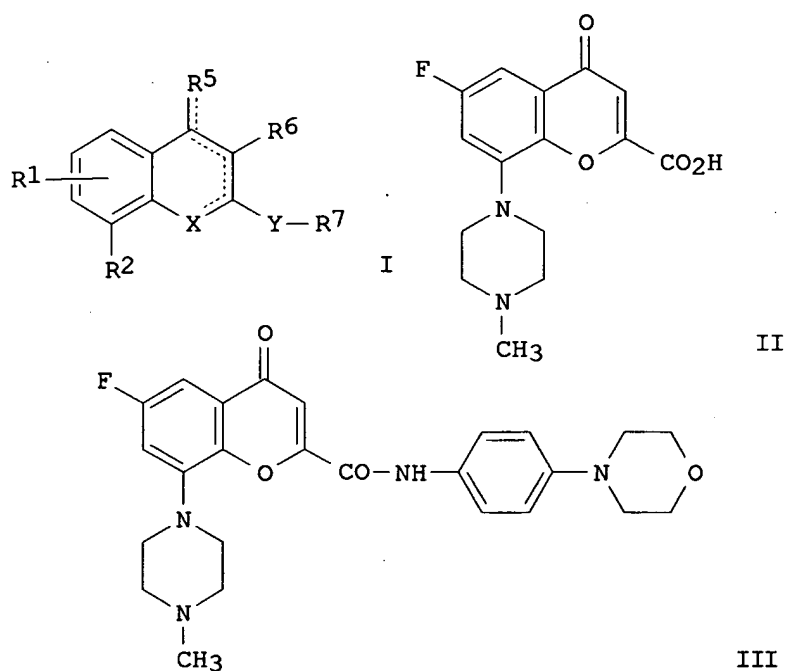
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055012	A2	20020718	WO 2002-SE68	20020115
	WO 2002055012	A3	20021114		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2001-262107PP 20010116				
	SE 2001-3650 A 20011101				

EP 1353913	A2	20031022	EP 2002-729622	20020115
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, IT, LV, FI, RO, MK, CY, AL, TR				
			US 2001-262107PP	20010116
			SE 2001-3650	A 20011101
			WO 2002-SE68	W 20020115
US 2003013708	A1	20030116	US 2002-51776	20020116
			US 2001-262107PP	20010116
			SE 2001-3650	A 20011101
			WO 2002-SE68	W 20020115
NO 2003003203	A	20030902	NO 2003-3203	20030715
			US 2001-262107PP	20010116
			SE 2001-3650	A 20011101
			WO 2002-SE68	W 20020115

OS MARPAT 137:109205
GI



AB Title compds. I and their pharmaceutically acceptable salts [R1 = H, alkyl, cycloalkyl, thiomethoxy, etc.; R2 = NR3R3; R3 independently = H, (un)substituted alkylamine e.g., alkyl, alkenyl, alkynyl amino-heterocycle, etc; R3-R3 = (un)substituted cycloalkylamine or amino-heterocycle e.g., alkyl, alkenyl, alkynyl, etc; R5 = H, O, S, etc.; R6 = H, Me; R7 = (un)substituted mono- or bicyclo- arom., (un)substituted heterocycle; X = O, N, NH, S; Y = CONH, NHCO, CSNH, etc.] were prepd with the proviso that multiple bonds are sepd. from each other by at least one single bond. For example, condensation of 4-oxo-4H-**chromene** -2-carboxylic acid II e.g., prepd. from diethylacetylenedicarboxylate and 2-bromo-4-fluorophenol in 5 steps, and 4-morpholin-4-yl-phenylamine

provided preferred 4-oxo-4H-**chromene**-2-carboxamide III. The utility of the compds. of the present invention were tested using a guinea pig hypothermia test, ED50 values for compds. I range from 0.006-5.5 mg/kg. Compds. I are disclosed to be antagonists or agonists of serotonin 5HT1B and 5HT1D receptors (no data provided). Also I are claimed for use in the treatment of gastrointestinal disorders, cardiovascular regulation, motor disorders, etc..

L12 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:314042 CAPLUS

DN 137:78925

TI Design, synthesis and biological activity study on N-[4-(substituted phenyl)**piperazine**-1-yl]alkyl amide series as .alpha.1-adrenoceptor antagonists

AU Fang, Hao; Xia, Lin; Jiang, Zhen-Zhou; Zhang, Wei; Zhang, Lu-Yong

CS Department of Medicinal Chemistry, China Pharmaceutical University, Nanjing, 210009, Peop. Rep. China

SO Huaxue Xuebao (2002), 60(4), 725-731

CODEN: HHHPA4; ISSN: 0567-7351

PB Kexue Chubanshe

DT Journal

LA Chinese

OS CASREACT 137:78925

AB Novel furan-2-carboxylic acid {.omega.-[4-(substituted phenyl)-**piperazine**-1-yl]alkyl}amide and 2-oxo-2H-**chromene**-3-carboxylic acid {.omega.-[4-(substituted phenyl)**piperazine**-1-yl]alkyl}amide derivs. have been designed and synthesized based on the structure and activity relationship (SAR) of phenylpiperazine series as .alpha.1-adrenoceptor (.alpha.1-AR) antagonists and the results of computer-aided drug design we studied before. All the target compds. have been identified by 1H NMR, IR and MS (HRMS). Preliminary bioassay suggests that most of the target compds. display good blocking activity to .alpha.1-AR. The potency (pA2) of compd. N-[2-[4-(2-methoxyphenyl)piperazin-1-yl]ethyl]-2-furancarboxamide is higher than prazosin.

L12 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:72049 CAPLUS

DN 136:134784

TI Preparation of hydrocarbyl sulfone derivatives as inhibitors of activated blood coagulation factor X and process for their production

IN Kubo, Keiji; Miyawaki, Toshio; Kawamura, Masaki

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 252 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002006234	A1	20020124	WO 2001-JP6148	20010717
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,				
	LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,				
	RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,				
	VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001069531 A5 20020130 JP 2000-221065 A 20000717
AU 2001-69531 20010717

JP 2000-221065 A 20000717
WO 2001-JP6148 W 20010717

JP 2002201178 A2 20020716 JP 2001-216830 20010717

JP 2000-221065 A 20000717

EP 1302462 A1 20030416 EP 2001-948032 20010717

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2000-221065 A 20000717

WO 2001-JP6148 W 20010717

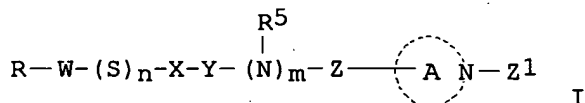
US 2003187023 A1 20031002 US 2003-333308 20030116

JP 2000-221065 A 20000717

WO 2001-JP6148 W 20010717

OS MARPAT 136:134784

GI



AB Compds. represented by the general formula (I) or salts thereof [wherein R = (un)substituted cyclic hydrocarbyl or heterocyclyl; W = a bond, (un)substituted divalent hydrocarbon chain; X = (un)substituted divalent hydrocarbon group; Y, Z = NR₆, CO, SO, SO₂, CH₂, NR₆CO, COCH₂, a bond; ring A = (un)substituted N-contg. heterocyclyl; R₅, R₆ = H, (un)substituted hydrocarbyl, (un)substituted alkoxy, optionally esterified or amidated carboxyl, (un)substituted acyl; or R₅ is linked to the substituent of X or that of the ring A to form a ring; Z¹ = (un)substituted imidoyl or N-contg. heterocyclyl; n = 0,1,2; m = 0,1] or salts thereof, which inhibit activated blood coagulation factor X (no data), are prepd. These compds. are useful as anticoagulants for the treatment or prevention of myocardial infarction, cerebral thrombosis, deep venous thrombosis, pulmonary thromboembolism, or thromboembolism during or after surgery. Thus, a soln. of 3-[(6-chloro-2-naphthyl)sulfonyl]propanoic acid (prepn. given), 4-methylamino-1-(2-methyl-4-pyridyl)piperidine (prepn. given), DMTMM in THF was stirred at room temp. for 16 h to give 38% 3-[(6-chloro-2-naphthyl)sulfonyl]-N-methyl-N-[1-(2-methyl-4-pyridyl)-4-piperidinyl]propanamide (II). A capsule and tablet formulation contg. II were prepd.

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:842112 CAPLUS

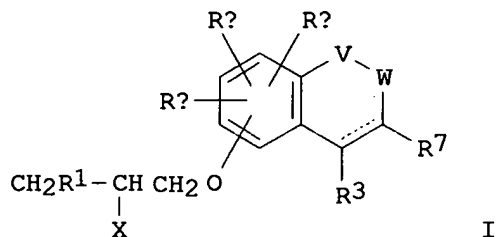
DN 134:17502

TI Preparation of phenoxypropylamine compounds as antagonists of 5-HT_{1A} receptor

IN Nishiyama, Akira; Bougauchi, Masahiro; Kuroita, Takanobu; Minoguchi, Masanori; Morio, Yasunori; Kanzaki, Kouji

PA Welfide Corp., Japan
 SO PCT Int. Appl., 335 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000071517	A1	20001130	WO 2000-JP3279	20000522
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
				JP 1999-142750 A	19990524
				JP 1999-166160 A	19990614
				JP 1999-277384 A	19990929
				JP 2000-18080 A	20000125
	BR 2000011542	A	20020305	BR 2000-11542	20000522
				JP 1999-142750 A	19990524
				JP 1999-166160 A	19990614
				JP 1999-277384 A	19990929
				JP 2000-18080 A	20000125
				WO 2000-JP3279 W	20000522
	EP 1188747	A1	20020320	EP 2000-927844	20000522
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
				JP 1999-142750 A	19990524
				JP 1999-166160 A	19990614
				JP 1999-277384 A	19990929
				JP 2000-18080 A	20000125
				WO 2000-JP3279 W	20000522
	NZ 516111	A	20030530	NZ 2000-516111	20000522
				JP 1999-142750 A	19990524
				JP 1999-166160 A	19990614
				JP 1999-277384 A	19990929
				JP 2000-18080 A	20000125
				WO 2000-JP3279 W	20000522
	US 2002111358	A1	20020815	US 2001-990389	20011123
				JP 1999-142750 A	19990524
				JP 1999-166160 A	19990614
				JP 1999-277384 A	19990929
				JP 2000-18080 A	20000125
				WO 2000-JP3279 A2	20000522
	ZA 2001010137	A	20030225	ZA 2001-10137	20011210
				JP 1999-142750 A	19990524
OS	MARPAT 134:17502				
GI					



AB Phenoxypropylamine compds. represented by general formula [I; a bond represented by a solid and a dotted line is a double or single bond; X = H, HO, C1-8 alkoxy, acyloxy, oxo; R1 = 4-substituted piperidino, piperazino, 1-piperidinylamino, or 1,2,3,6-tetrahydropyrazinyl, (un)substituted aryloxy- or arylthioamino, (un)substituted heterocyclyloxy- or heterocyclylthioamino, etc.; R3 = H, C1-18 alkyl, halo; Ra, Rb, Rc = H, C1-18 alkyl, OH, C1-8 alkoxy, halo, acyl, NO2, NH2], optically active isomers thereof or pharmaceutically acceptable salts thereof and hydrates of the same are prepd. These compds. have an affinity selectively for 5-HT1A receptor, simultaneously show an antagonistic activity, and inhibit the reuptake of 5-HT, thereby being usable as antidepressant agents quickly achieving an antidepressant effect (no data). Thus, 4-(3,4-dichlorophenyl)piperazine was added to a soln. of (S)-5-(4-glycidyoxybenzo[b]furan-2-yl)-3-methylisoxazole in MeOH and refluxed for 8 h to give (S)-1-(4-(3,4-dichlorophenyl)piperazin-1-yl)-3-(2-(3-methylisoxazol-5-yl)benzo[b]furan-4-yloxy)-2-propanol.

RE.CNT 151 THERE ARE 151 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:236987 CAPLUS

DN 130:282085

TI Piperazino- and piperidino-substituted indanol derivatives, process for their preparation, and pharmaceutical compositions containing them as CNS agents (5-HT1A ligands) or analgesics

IN Peglion, Jean-Louis; Goument, Bertrand; Millan, Mark; Newman-Tancredi, Adrian; Dekeyne, Anne

PA Adir et Compagnie, Fr.

SO Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

DT Patent

LA French

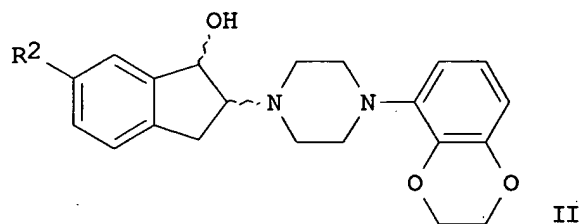
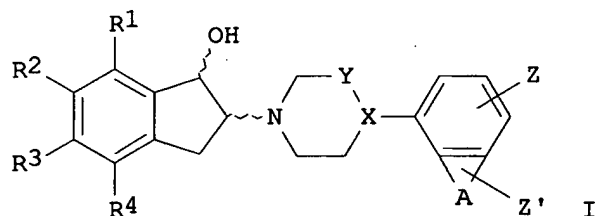
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 906912	A1	19990407	EP 1998-402415	19981001
EP 906912	B1	20030108		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2769312	A1	19990409	FR 1997-12336 A	19971003
FR 2769312	B1	19991203	FR 1997-12336	19971003
CN 1218051	A	19990602	CN 1998-120594	19980930
CN 1122666	B	20031001		
CA 2249756	AA	19990403	FR 1997-12336 A	19971003
			CA 1998-2249756	19981001

AT 230739	E	20030115
PT 906912	T	20030430
ES 2190574	T3	20030801
NO 9804620	A	19990406
ZA 9809011	A	19990412
AU 9887875	A1	19990422
AU 736710	B2	20010802
JP 11158179	A2	19990615
US 5958927	A	19990928
NZ 332142	A	20000526
BR 9804485	A	20000411
US 6060487	A	20000509

FR 1997-12336	A	19971003
AT 1998-402415		19981001
FR 1997-12336	A	19971003
PT 1998-98402415		19981001
FR 1997-12336	A	19971003
ES 1998-402415		19981001
FR 1997-12336	A	19971003
NO 1998-4620		19981002
FR 1997-12336	A	19971003
ZA 1998-9011		19981002
FR 1997-12336	A	19971003
AU 1998-87875		19981002
FR 1997-12336	A	19971003
JP 1998-280639		19981002
FR 1997-12336	A	19971003
US 1998-165844		19981002
FR 1997-12336	A	19971003
NZ 1998-332142		19981002
FR 1997-12336	A	19971003
BR 1998-4485		19981005
FR 1997-12336	A	19971003
US 1999-273889		19990322
FR 1997-12336	A	19971003
US 1998-165844	A3	19981002

OS MARPAT 130:282085
GI



AB Title compds. I [R1-R4 = H, halo, alk(en/yn)yl, cycloalkylalkyl, CF3, CHO, CO2H, alkoxy carbonyl, alkanoyl, CH2OH, OH, alk(en/yn)yl oxy, PhCH2O, cyano, (un)substituted amino, etc.; adjacent R1-R4 may form carbo- or heterocyclic rings; XY = NCH2, C:CH, CHCH2, or C(OH)CH2; A = atoms to form 5- to 7-membered heterocyclic ring contg. one or more double bonds and 1

or 2 atoms of O and/or S; Z = H, halo, OH, alkoxy; Z' = H, oxo, OH, alkoxy, or CH₂OH], including cis or trans forms, racemic or optically active forms, and their pharmaceutically acceptable acid addn. salts, are claimed. The compds. are useful for treatment of anxiety, depression, psychosis, schizophrenia, cognitive disorders, stress, anorexia, and pain. Approx. 40 examples were prepd. For instance, 6-methoxyindan-1-one underwent bromination in the 2-position (97%), followed by coupling of the bromide with 1-(2,3-dihydro[1,4]benzodioxin-5-yl)piperazine (74%), and redn. of the keto group with NaBH₄ in THF, to give cis- and trans-isomers of title compd. II [R₂ = OMe]. In the rat ultrasonic vocalization test for anxiolytic activity, trans-II [R₂ = H] reduced vocalization time from 230 s (control) to 8 s at 2.5 mg/kg s.c.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:767627 CAPLUS

DN 124:21803

TI Method and agents for preventing tissue injury from hypoxia

IN Bursten, Stuart L.; Singer, Jack W.; Rice, Glenn C.

PA CE Therapeutics, Inc., USA

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9513075	A1	19950518	WO 1994-US12821	19941114
	W: AU, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9510907	A1	19950529	US 1993-152117 A	19931112
				AU 1995-10907	19941114
				US 1993-152117 A	19931112
				WO 1994-US12821W	19941114
	EP 728003	A1	19960828	EP 1995-901808	19941114
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
				US 1993-152117 A	19931112
				WO 1994-US12821W	19941114

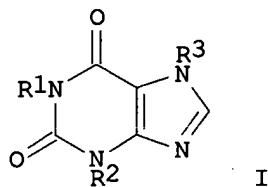
PATENT FAMILY INFORMATION:

FAN 2003:851281

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6638938	B1	20031028	US 1994-353756	19941212
				US 1993-152117 B2	19931112
	US 5856331	A	19990105	US 1997-948747	19971010
				US 1993-152117 B2	19931112
				US 1994-353756 A1	19941212
	US 2003216414	A1	20031120	US 2003-434097	20030509
				US 1993-152117 B2	19931112
				US 1994-353756 A3	19941212

OS MARPAT 124:21803

GI



AB Tissue injury, caused by tissue hypoxia and reoxygenation, is prevented by administering a xanthine deriv. I [R1 = (.omega.-1) secondary alc.-substituted C5-12 alkyl enantiomer; R2, R3 = C1-12 alkyl or (di)oxaalkyl] or a (heterocyclylalkyl)amine that inhibits signal transduction by inhibiting cellular accumulation of linoleoyl phosphatidic acid through inhibition of lysophosphatidic acyltransferase. Diseases that can be treated with these compds. include shock, sequelae of myocardial infarction and stroke, altitude sickness, acidosis, hypoxia-mediated neurodegenerative diseases, and disorders related to transplantation and transplant rejection. Thus, in mice with exptl. hemorrhage, treatment with lisophylline (100 mg/kg i.v. after 1 h, then 100 mg/kg i.p. 8 times at 8-h intervals) largely normalized signs of hemorrhagic shock (neutrophil infiltration, interstitial edema, elevated plasma levels of interferon-.gamma. and tumor necrosis factor .alpha., elevated mRNA levels for interleukins 1.beta. and 6 in pulmonary mononuclear cells, etc.).

=> d 113 fbib hitstr abs total

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:356424 CAPLUS

DN 138:368765

TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for treatment of psychiatric disorders

IN Chapdelaine, Marc; Davenport, Timothy; Haerberlein, Markus; Horchler, Carey; McCauley, John; Pierson, Edward; Sohn, Daniel

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DT Patent

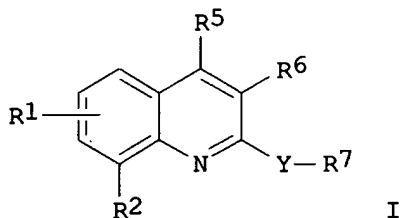
LA English

FAN.CNT 1

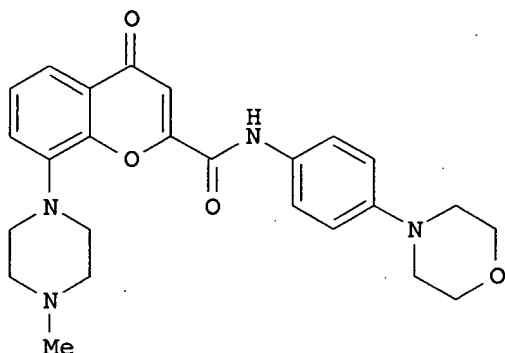
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037872	A1	20030508	WO 2002-SE1989	20021101
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,				

NE, SN, TD, TG

SE 2001-3649 A 20011101

OS MARPAT 138:368765
GI

I



II

AB Quinolines I [wherein R1 = independently H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, OR4, N(R4)2 or SR4; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] are disclosed as 5-HT1B and 5-HT1D antagonists. Related 4-oxo-4H-**chromene** -2-carboxamides and 4-oxo-1,4-dihydroquinoline-2-carboxamides were prepd. and tested for biol. activity. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapond. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-**chromene**-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. I are

useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:356423 CAPLUS

DN 138:368764

TI Preparation of 4-oxo-4H-**chromene**-2-carboxamides and
4-oxo-1,4-dihydroquinoline-2-carboxamides as 5-HT antagonists for
treatment of psychiatric disorders

IN Chapdelaine, Marc; Davenport, Timothy; Haeberlein, Markus; Horschler,
Carey; Pierson, Edward; Sohn, Daniel; McCauley, John

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 137 pp.

CODEN: PIXXD2

DT Patent

LA English

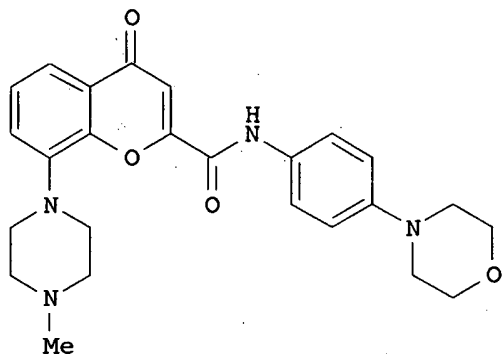
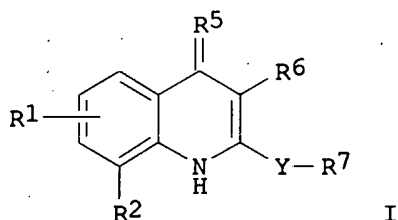
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037871	A1	20030508	WO 2002-SE1987	20021101
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

SE 2001-3648 A 20011101

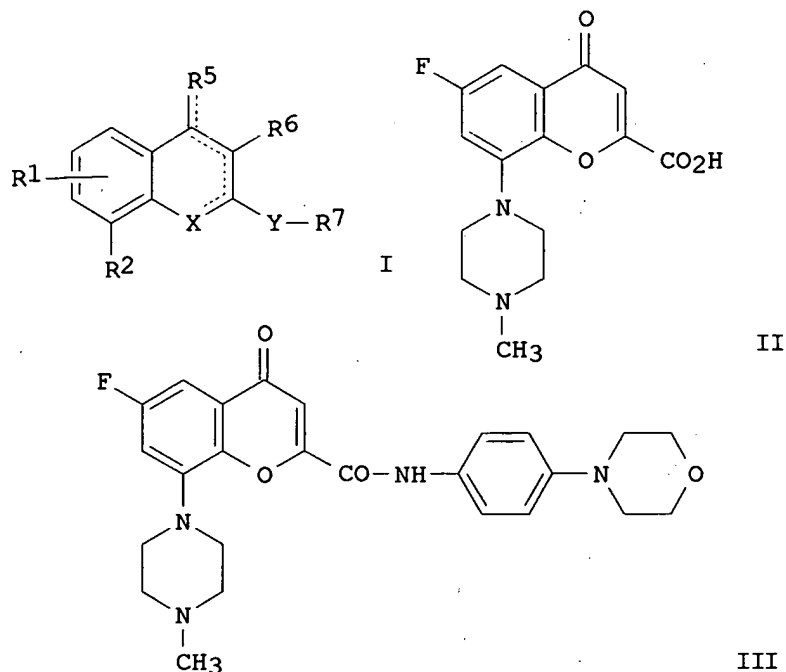
OS MARPAT 138:368764

GI



AB Title quinolinones I [wherein R1 = H, halo, OH, CN, MeO, MeS, NHA, NA2, NHCOA, CONH2, CONHA, CONA2, OA, aryl, or (un)substituted (cyclo)alkyl; R2 = NR3(CH2)nN(R3)2, QN(R3)2, NR3QR3, or (un)substituted piperazinyl, homopiperazinyl, or 1,4-diazacyclooctyl; R3 = H, AOH, or (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; R4 = H or (un)substituted alkyl; R5 = O, NR4, or S; R6 = H or Me; R7 = (un)substituted aryl or heterocyclyl; R8 = CH2, CO, SO2, SO2NH, CONH, O, S, SO, or heterocyclyl connected to R7 by a ring fusion or single bond; A = (un)substituted (cyclo)alkyl, alkenyl, or alkynyl; Q = heterocyclyl; Y = CONH, CONA, NHCO, CSNH, CH2NH, COCH2, CH2CO, CO-piperazinediyl, COR8, NACO, CSNA, CH2NA, NACH2, or 5-membered heterocyclyl] and related chromenones were prep'd. as 5-HT1B and 5-HT1D antagonists. For example, reaction of di-Et acetylenedicarboxylate with 2-bromophenol in the presence of a catalytic amt. of tetrabutylammonium fluoride afforded 2-(2-bromophenoxy)but-2-enedioic acid di-Et ester (91%), which was sapon'd. with NaOH to give the diacid (88%). Cyclization using H2SO4 in EtOH provided Et 8-bromo-4-oxo-4H-chromene-2-carboxylate (24%). Pd-catalyzed substitution with N-methylpiperazine (70%), conversion to the HCl salt of the acid (100%), and amidation with 4-(4-morpholinyl)aniline in the presence of HOBt and TBTU in DMF and TEA gave II. All example compds. showed affinity for 5-HT1B and 5-HT1D receptors with Ki values of < 10 .mu.M. II was among twelve example compds. which reversed 5-HT1B agonist-induced hypothermia in guinea pigs in a dosage range of 0.006 mg/kg - 5.5 mg/kg. In addn., four chromenones demonstrated activity in a learned helplessness assay for antidepressant/antianxiety activity. Thus, I are useful for the treatment of psychiatric disorders including but not limited to depression, generalized anxiety, eating disorders, dementia, panic disorder, and sleep disorders (no data). The compds. may also be useful in the treatment of gastrointestinal disorders, motor disorders, endocrine disorders, vasospasm, and sexual dysfunction (no data).

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT



AB Title compds. I and their pharmaceutically acceptable salts [R1 = H, alkyl, cycloalkyl, thiomethoxy, etc.; R2 = NR3R3; R3 independently = H, (un)substituted alkylamine e.g., alkyl, alkenyl, alkynyl amino-heterocycle, etc; R3-R3 = (un)substituted cycloalkylamine or amino-heterocycle e.g., alkyl, alkenyl, alkynyl, etc; R5 = H, O, S, etc.; R6 = H, Me; R7 = (un)substituted mono- or bicyclo- arom., (un)substituted heterocycle; X = O, N, NH, S; Y = CONH, NHCO, CSNH, etc.] were prepd with the proviso that multiple bonds are sepd. from each other by at least one single bond. For example, condensation of 4-oxo-4H-**chromene**-2-carboxylic acid II e.g., prepd. from diethylacetylenedicarboxylate and 2-bromo-4-fluorophenol in 5 steps, and 4-morpholin-4-yl-phenylamine provided preferred 4-oxo-4H-**chromene**-2-carboxamide III. The utility of the compds. of the present invention were tested using a guinea pig hypothermia test, ED50 values for compds. I range from 0.006-5.5 mg/kg. Compds. I are disclosed to be antagonists or agonists of serotonin 5HT1B and 5HT1D receptors (no data provided). Also I are claimed for use in the treatment of gastrointestinal disorders, cardiovascular regulation, motor disorders, etc..

=> s serotonin 5HT and chromene
L14 0 SEROTONINE 5HT AND CHROMENE

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
125.59	547.32

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-22.87	-22.87

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 16:45:23 ON 30 JAN 2004



Creation date: 02-19-2004
Indexing Officer: TNGUYEN64 - TUAN NGUYEN
Team: OIPEBackFileIndexing
Dossier: 10051776

Legal Date: 01-31-2004

No.	Doccode	Number of pages
1	SRNT	19

Total number of pages: 19

Remarks:

Order of re-scan issued on